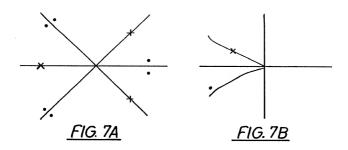
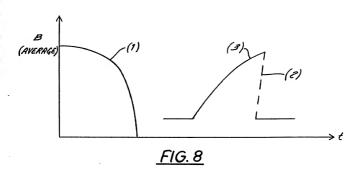


and the second second second





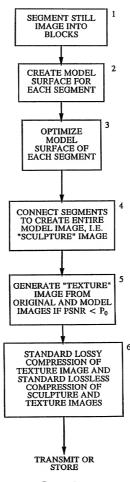
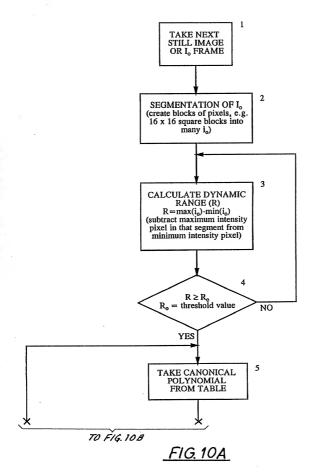


FIG. 9



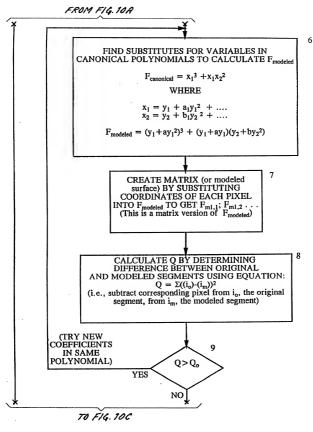


FIG. 10B

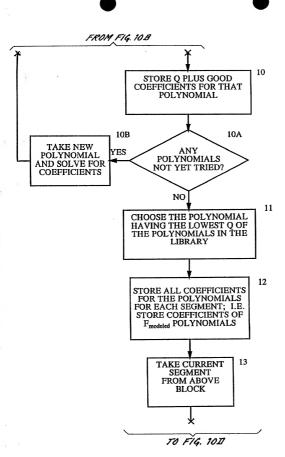
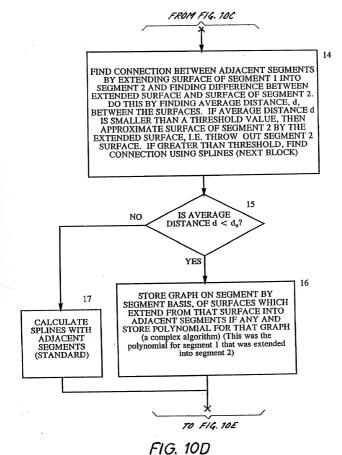


FIG. 10C



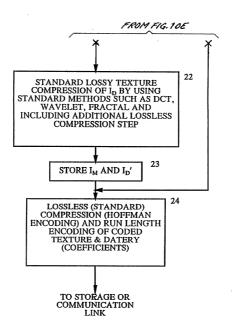


FIG. 10F

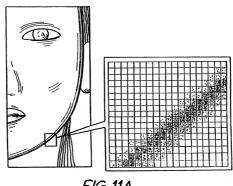
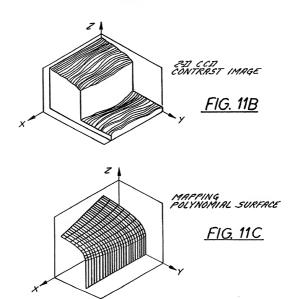


FIG. 11A



PIXEL_		FIRST SEGMENT OF ORIGINAL FRAME				SECOND SEGMENT OF ORIGINAL FRAME.	
Ì	3 1, 1	1,2	1,3	· · ·			
	2,1	2,2	•••				
						,	
X SEGME OF ORIGIN FRAME	INT			40	μ		

FIG. 12

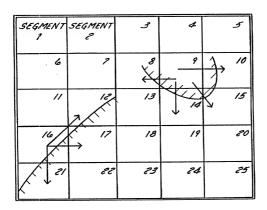
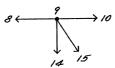


FIG. 13A



GRAPH OF SEGMENT 16'S CONNECTIONS TO ADJACENT SEGMENTS

FIG. 13B



GRAPH OF SEGMENT 9'S CONNECTIONS TO ATIJACENT SEGMENTS

FIG. 13C

I pixel °(1,1)	I pixel °(1,2)	

<u>FIG. 14A</u>

I pixel M(1,1)	I pixel M(1,2)	

FIG. 14B

I pixel d(1,1)	I pixel d(1,2)	
	J	

FIG. 14C

$$\frac{I_{pixel} - I_{pixel}}{o(1,1)} = \frac{I_{pixel}}{m(1,1)} = \frac{I_{pixel}}{d(1,1)}$$

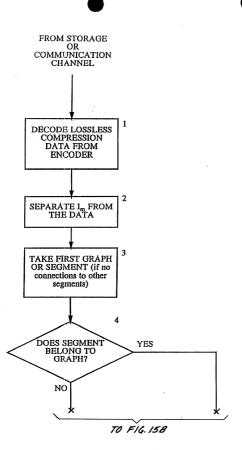


FIG. 15A

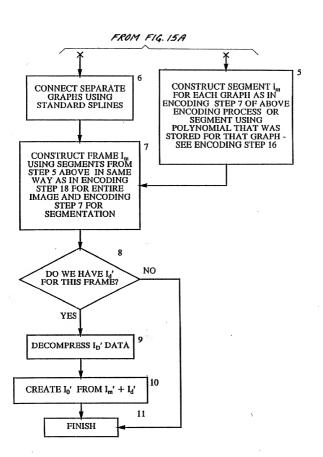
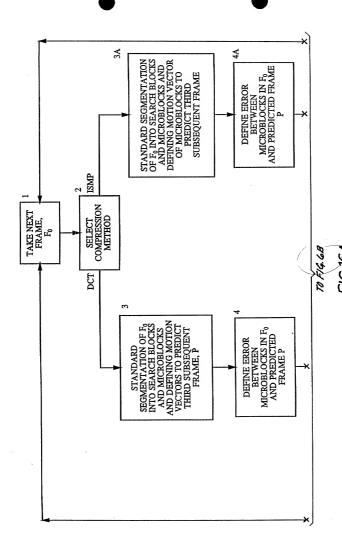


FIG. 15B



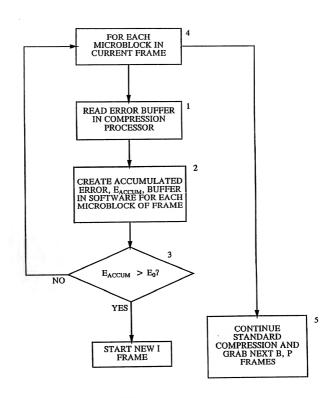


FIG. 18

#	Category	Data Reduction in Fraction of Original	Reduced Data Rate	Object Category Description
1.	Α	100%	128 kbps	Original; possibly with noise.
2.	В	75%	96 kbps	Tiny details of the face (or other biological signature, such as a fingerprint or retina); slightly reduced texture; edges remain unchanged.
3.	С	50%	84 kbps	Hardened edges, wrinkles, smooth transitions for face details.
4.	D	25%	32 kbps	Heavily reduced texture, hard edges.
5.	E	10%	12.8 kbps	Hard edges, "cartoon- type" faces.

<u>FIG. 19</u>